

03/04
03/08#2
OIPE

ENTERED

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/077,137

DATE: 03/04/2002
 TIME: 14:43:29

Input Set : A:\A080pct.txt
 Output Set: N:\CRF3\03042002\J077137.raw

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4 <110> APPLICANT: MacKay, Fabienne
5      Browning, Jeffrey
6      Ambrose, Christine
7      Tschopp, Jurg
8      Schneider, Pascal
9      Thompson, Jeffrey
10     Biogen, Inc.
11     Apotech R&D S.A.
13 <120> TITLE OF INVENTION: Baff Receptor (BCMA), An
14     Immunoregulatory Agent
16 <130> FILE REFERENCE: A080PCT
C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/077,137
C--> 19 <141> CURRENT FILING DATE: 2001-02-15
21 <150> PRIOR APPLICATION NUMBER: 60/149,378
22 <151> PRIOR FILING DATE: 1999-08-17
24 <150> PRIOR APPLICATION NUMBER: 60/181,684
25 <151> PRIOR FILING DATE: 2000-02-11
27 <150> PRIOR APPLICATION NUMBER: 60/183,536
28 <151> PRIOR FILING DATE: 2000-02-18
30 <160> NUMBER OF SEQ ID NOS: 8
32 <170> SOFTWARE: FastSEQ for Windows Version 4.0
34 <210> SEQ ID NO: 1
35 <211> LENGTH: 184
36 <212> TYPE: PRT
37 <213> ORGANISM: homo sapien
39 <400> SEQUENCE: 1
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42 Leu Leu His Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr
43      20          25          30
44 Pro Pro Leu Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser
45      35          40          45
46 Val Lys Gly Thr Asn Ala Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu
47      50          55          60
48 Ile Ile Ser Leu Ala Val Phe Val Leu Met Phe Leu Leu Arg Lys Ile
49      65          70          75          80
50 Ser Ser Glu Pro Leu Lys Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu
51      85          90          95
52 Leu Gly Met Ala Asn Ile Asp Leu Glu Lys Ser Arg Thr Gly Asp Glu
53      100         105         110
54 Ile Ile Leu Pro Arg Gly Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys
55      115         120         125
56 Glu Asp Cys Ile Lys Ser Lys Pro Lys Val Asp Ser Asp His Cys Phe

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57	130	135	140														
58	Pro	Leu	Pro	Ala	Met	Glu	Glu	Gly	Ala	Thr	Ile	Leu	Val	Thr	Thr	Lys	
59	145				150				155							160	
60	Thr	Asn	Asp	Tyr	Cys	Lys	Ser	Leu	Pro	Ala	Ala	Leu	Ser	Ala	Thr	Glu	
61					165				170							175	
62	Ile	Glu	Lys	Ser	Ile	Ser	Ala	Arg									
63			180														
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66	<211>	LENGTH:	552														
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72	tgcataacctt	gtcaacttcg	atgttcttct	aatactcctc	ctctaacatg	tcagttatt										120	
73	gtaatgcaag	tgtgaccaat	tcagtgaaag	gaacgaatgc	gattctctgg	acctgtttgg										180	
74	gactgagctt	aataatttct	ttggcagttt	tcgtgcta	gtttttgcta	aggaagataa										240	
75	gctctgaacc	attaaaggac	gagtttaaaa	acacaggatc	aggctccctg	ggcatggcta										300	
76	acattgacct	ggaaaagagc	aggactggtg	atgaaattat	tctccgagag	gcctcgagta										360	
77	cacggtgaa	aatgacact	gtgaagactg	catcaagagc	aaaccgaagg	tcgactctga										420	
78	ccattgctt	ccactcccag	ctatggagga	aggcgcaacc	attctgtcac	cacaaaaacg										480	
79	aatgactatt	gcaagagcct	gccagctgct	ttgagtgcta	cgagataga	gaaatcaatt										540	
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90	Thr	Gly	Met	Leu	Gln	Met	Ala	Gly	Gln	Cys	Ser	Gln	Asn	Glu	Tyr	Phe	
91				20				25							30		
92	Asp	Ser	Leu	Asp	Val	Thr	Met	Leu	Gln	Met	Ala	Gly	Gln	Cys	Ser	Gln	
93				35				40							45		
94	Asn	Glu	Tyr	Phe	Asp	Ser	Leu	Leu	His	Ala	Cys	Ile	Pro	Cys	Gln	Leu	
95				50				55							60		
96	Arg	Cys	Ser	Ser	Asn	Thr	Pro	Pro	Leu	Thr	Cys	Leu	His	Ala	Cys	Ile	
97	65				70				75						80		
98	Pro	Cys	Gln	Leu	Arg	Cys	Ser	Ser	Asn	Thr	Pro	Pro	Leu	Thr	Cys	Gln	
99				85				90							95		
100	Arg	Tyr	Cys	Asn	Ala	Ser	Val	Thr	Asn	Ser	Val	Lys	Gly	Gln	Arg	Tyr	
101				100				105							110		
102	Cys	Asn	Ala	Ser	Val	Thr	Asn	Ser	Val	Lys	Gly	Val	Asp	Lys	Thr	His	
103				115				120							125		
104	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	
105	130				135										140		
106	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	
107	145				150										155		160
108	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	
109					165				170						175		

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Input Set : A:\A080pct.txt
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110 Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
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112 Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Tyr Val Val Ser Val
113 195 200 205
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116 <211> LENGTH: 540
117 <212> TYPE: DNA
118 <213> ORGANISM: homo sapien
120 <400> SEQUENCE: 4
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122 gacgtcacga tgttgcagat ggctgggcag tgctccaaa atgaatattt tgacagttt 120
123 ttgcacatgtt gcataccttg tcaacttcga tggttcttcta atactcctcc tctaacaatgt 180
124 cagcgattt gtaatgcaag tgtgaccaat tcagtgaaag gagtcgacaa aactcacaca 240
125 tgcccacgtt gcccacgacc tgaactcctg gggggaccgt cagtccttctt cttcccccca 300
126 aaacccaagg acaccctcat gatctcccg acccctgagg tcacatgcgt ggtgggtggac 360
127 gtgagccacg aagaccctga ggtcaagttt aacttgttacg tggacggcgt ggaggtgcac 420
128 aatgccaaga caaagcccg gggaggacag tacaacagca cgtaccgtgt ggtcagcgtc 480
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132 <211> LENGTH: 140
133 <212> TYPE: PRT
134 <213> ORGANISM: homo sapien
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138 1 5 10 15
139 Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
140 20 25 30
141 Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
142 35 40 45
143 Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
144 50 55 60
145 Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
146 65 70 75 80
147 Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
148 85 90 95
149 Gly Ser Phe Phe Lys Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
150 100 105 110
151 Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
152 115 120 125
153 Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
154 130 135 140
156 <210> SEQ ID NO: 6
157 <211> LENGTH: 369
158 <212> TYPE: DNA
159 <213> ORGANISM: homo sapien
161 <400> SEQUENCE: 6
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163 ccacaggtgt acaccctgcc cccatcccg gatgagctga ccaagaacca ggtcagcctg 120
164 acctgcctgg tcaaaggctt ctatcccagc gacatcgccg tggagtggga gagcaatggg 180

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165	cagccggaga	acaactacaa	gaccacgcct	cccgtgttgg	actccgacgg	ctccttcttc	240										
166	ctctacagca	agctcaccgt	ggacaagagc	agggtggcagc	aggggaacgt	cttctcatgc	300										
167	tccgtatgc	atgaggctct	gcacaaccac	tacacgcaga	agagcctctc	cctgtctccc	360										
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177	1																15
178	Leu	Leu	His	Ala	Cys	Ile	Pro	Cys	Gln	Leu	Arg	Cys	Ser	Ser	Asn	Thr	
179																	30
180	Pro	Pro	Leu	Thr	Cys	Gln	Arg	Tyr	Cys	Asn	Ala	Ser	Val	Thr	Asn	Ser	
181																	45
182	Val	Lys	Gly	Thr	Asn	Ala	Ile	Leu	Trp	Thr	Cys	Leu	Gly	Leu	Ser	Leu	
183																	60
184	Ile	Ile	Ser	Leu	Ala	Val	Phe	Val	Leu	Met	Phe	Leu	Leu	Arg	Lys	Ile	
185																	80
186	Ser	Ser	Glu	Pro	Leu	Lys	Asp	Glu	Phe	Lys	Asn	Thr	Gly	Ser	Gly	Leu	
187																	95
188	Leu	Gly	Met	Ala	Asn	Ile	Asp	Leu	Glu	Lys	Ser	Arg	Thr	Gly	Asp	Glu	
189																	110
190	Ile	Ile	Leu	Pro	Arg	Gly	Leu	Glu	Tyr	Thr	Val	Glu	Glu	Cys	Thr	Cys	
191																	125
192	Glu	Asp	Cys	Ile	Lys	Ser	Lys	Pro	Lys	Val	Asp	Ser	Asp	His	Cys	Phe	
193																	140
194	Pro	Leu	Pro	Ala	Met	Glu	Glu	Gly	Ala	Thr	Ile	Leu	Val	Thr	Thr	Lys	
195																	160
196	Thr	Asn	Asp	Tyr	Cys	Lys	Ser	Leu	Pro	Ala	Ala	Leu	Ser	Ala	Thr	Glu	
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208	acacagacag	cccccgtaag	aacccacgaa	gcaggcgaag	ttcattgttc	tcaacattct											120
209	agctgctctt	gctgcatttg	ctctggaaatt	cttggataga	tattacttgt	ccttccaggc											180
210	tgttcttct	gtagccctt	tgtttcttt	ttgtgatcat	gttgcagatg	gctgggcagt											240
211	gtccccaaaa	tgaatatttt	gacagtttgt	tgcatgctt	cataccttgt	caacttcgat											300
212	gttcttctaa	tactcctctt	ctaacatgtc	agcggttattt	taatgcattt	gtgaccaatt											360
213	cagtgaaagg	aacgaatgcg	attctcttga	cctgtttttttt	actgagctt	ataatttttt											420
214	tggcgttttt	cgtgctaatg	tttttgcataa	ggaagataag	ctctgacacca	ttaaaggacg											480
215	agtttaaaaa	cacaggatca	ggtctcttgg	gcatggctaa	cattgacccgt	gaaaagagca											540
216	ggactgggtt	tgaatttattt	cttccgagag	gcctcgat	cacgggtggaa	gaatgcaccc											600
217	gtgaagactg	catcaagagc	aaaccgaagg	tgcactctga	ccatttgctt	ccactccac											660

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219	tgccagctgc	tttgagtgtc	acggagatag	agaaatcaat	ttctgctagg	taattaacca	780
220	tttcgactcg	agcagtgcc	ctttaaaaat	cttttgtcag	aatagatgat	gtgtcagatc	840
221	tcttttaggt	gactgttattt	ttcagttgcc	gatacagctt	tttgcctct	aactgtggaa	900
222	actcttatg	ttagatatat	ttctctaggt	tactgttggg	agcttaatgg	tagaaacttc	960
223	cttggtttca	tgattaaagt	ctttttttt	cctga			995

VERIFICATION SUMMARY

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TIME: 14:43:30

Input Set : A:\A080pct.txt

Output Set: N:\CRF3\03042002\J077137.raw

L:18 M:270 C: Current Application Number differs, Replaced Current Application Number
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date